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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 09/16/2009

John P. White Cooper & Dunham LLP 1185 Avenue of the Americas New York, NY 10036 EXAMINER

KELLY, ROBERT M

ART UNIT PAPER NUMBER

1633

DATE MAILED: 09/16/2009

APPLICATION N	O. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,991	09/09/2003	Ridwan Shabsigh 0	575/58075-Z/JPW/AJM/HA	4213

TITLE OF INVENTION: USE OF VASCULAR ENDOTHELIAL GROWTH FACTOR IN THE TREATMENT OF ERECTILE DYSFUNCTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	12/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further correspondence including the Patent, advance orders and notification indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new of maintenance fee notifications.  CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  7590 09/16/2009  John P. White Cooper & Dunham LLP 1185 Avenue of the Americas				tion of maintenance fees will be mailed to the current correspondence address as a cw correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.  Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
			_				(Signature)
							(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTO	OR ATTORNEY DOCKET NO.		RNEY DOCKET NO.	CONFIRMATION NO.
10/658,991	09/09/2003		Ridwan Shabsigh		0575/58	075-Z/JPW/AJM/HA	4213
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nonprovisional	YES	\$755	\$300			\$1055	12/16/2009
EXAM		ART UNIT	CLASS-SUBCLASS	٦	7		12/10/2007
	OBERT M	1633	514-044000	_	J		
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form aed. Use of a Customer A TO BE PRINTED ON	data will appear on the	gle firm (having as r agent) and the nar torneys or agents. I be printed.  ype) patent. If an assign assignment.	a members of uf no nam	p to per a 2	ocument has been filed for
Please check the appropri	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🔲 (	Corporat	ion or other private gro	oup entity Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies  5. Change in Entity Status (from status indicated above)			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
_ 。 .	n <b>us</b> (from status indicate is SMALL ENTITY stati	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lo	onger claiming SMA	ALL EN	ΓΙΤΥ status. See 37 CI	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than c Office.	the applicant; a reg	gistered	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No.			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	itiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain o 1.14. This collection is o depending upon the inc e Chief Information Offi COMPLETED FORMS	r retain a benefit by estimated to take 12 lividual case. Any c icer, U.S. Patent and TO THIS ADDRES	the pub minute: commend Trader SS. SEN	lic which is to file (anc s to complete, includin is on the amount of tir nark Office, U.S. Depa D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/658,991	09/09/2003	Ridwan Shabsigh (	575/58075-Z/JPW/AJM/HA 4213		
75	90 09/16/2009		EXAM	INER	
John P. White		KELLY, ROBERT M			
Cooper & Dunham LLP			ART UNIT	PAPER NUMBER	
1185 Avenue of the Americas New York, NY 10036			1633		
New Tork, NT 100	)30		DATE MAILED: 09/16/2009		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 7 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 7 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	ication No. Applicant(s)					
	10/658,991	SHARS	SIGH, RIDWAN				
Notice of Allowability	Examiner	Art Un					
	   ROBERT M. KELL	Y 1633					
	ROBERT W. KELL	1 1033					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLO or other appropriate IGHTS. This applica	DSED in this application. communication will be n	If not included mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>6/8/09</u> .							
2. $\square$ The allowed claim(s) is/are $\underline{9,10,13,18,19}$ and $\underline{21}$ .							
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	_	(a)-(d) or (f).					
2. ☐ Certified copies of the priority documents have		oplication No					
3. ☐ Copies of the certified copies of the priority do		·	stage application from the				
International Bureau (PCT Rule 17.2(a)).			3 11				
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			front (not the back) of				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Not	ce of Informal Patent Ap	nlication				
2. ☐ Notice of Preferences Cited (PTO-692)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		rview Summary (PTO-41	•				
•	Pa	per No./Mail Date	•				
<ol> <li>Information Disclosure Statements (PTO/SB/08),</li> <li>Paper No./Mail Date</li> </ol> 7. ☑ Examiner's Amendment/Comment							
4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☒ Examiner's Statement of Reasons for Allowance of Biological Material							
(D. I 1947)   11 / 12   12   13   13   13   13   13   13	9.	ər 					
/Robert M Kelly/ Primary Examiner, Art Unit 1633							

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

1. The TITLE has been amended as follows:

Use of Vascular Endothelial Growth Factor in the Treatment of Erectile Dysfunction Treatment of Erectile Dysfunction by Injection of Nucleic Acids encoding VEGF into the Corpora Cavernosa.

The following is an examiner's statement of reasons for allowance:

Applicant has argued that there exists no reasonable expectation of success in the obviousness-type rejection made by the Examiner (Argument of 4/10/09, pp. 4-8). The Examiner, upon further consideration, agrees with the argument in general. To wit, Isner is limited to local administration, through direct contact by balloon catheter, while Lowery is drawn to the more-well-understood administration of vasodilators. Given the other enablement arguments (not those of the 12/4/08 OA, but those of the 1/13/06 OA), it is clear that such showing in the Art is insufficient to enable vasculogenesis by a nucleic acid encoding VEGF, as

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VEGF may not be reasonably expected to work outside direct administration to the interior wall of the vessels, as performed by Isner. Hence, the rejection of Claims 9, 10, 13, 18, 19, and 20, as rejected under 35 USC 103(a), as obvious over US PAT NOs 5,652,225 (to Isner) and 6,100,286 (to Lowrey), as further evidenced by Christ (1995) Urol. Clin. N. Am., 22(4): 727-45, are withdrawn. However, for the record it should be noted that Applicant's arguments against Christ were irrelevant, because whatever Applicant states, Christ was cited by Applicant's specification as evidence that the Artisan understood vascular insufficiency was a contributing form of erectile dysfunction.

Hence, Claims 9, 10, 13, 18, 19, and 20 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT M. KELLY whose telephone number is (571)272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert M Kelly/ Primary Examiner, Art Unit 1633